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1 [Time, media, interaction: Interactive multimedia annotations: enriching and extending content](#)

Rudinei Goularte, Renan G. Cattelan, José A. Camacho-Guerrero, Valter R. Inácio, Maria da Graça C. Pimentel

 October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(198.19 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses an approach to the problem of annotating multimedia content. Our approach provides annotation as metadata for indexing retrieval and semantic processing as well as content enrichment. We use an underlying model for structured multimedia descriptions and annotations allowing the establishment of spatial temporal and linking relationships. We discuss aspects related with documents and annotations used to guide the design of an application that allows annotations to be made ...

Keywords: MPEG-7, annotation, multimodal interfaces

2 [Multimedia and visualization \(MV\): Modelling and filtering of MPEG-7-compliant meta-data for digital video](#)

Harry Agius, Marios C. Angelides

 March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(235.90 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The recent MPEG-7 standard specifies a semi-structured meta-data format for open interoperability of multimedia. However, the standard refrains from specifying how the meta-data is to be used or how meta-data inappropriate to user requirements may be filtered out. Consequently, we propose COSMOS-7, which produces structured MPEG-7-compliant meta-data for digital video and enables content-based hybrid filtering of that meta-data.

Keywords: MPEG-7, filtering, meta-data, modelling, multimedia

3 [Research track: Cross-training: learning probabilistic mappings between topics](#)

Sunita Sarawagi, Soumen Chakrabarti, Shantanu Godbole

 August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(331.75 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Classification is a well-established operation in text mining. Given a set of labels A and a set D_A of training documents tagged with these labels, a classifier learns to assign labels to unlabeled test documents. Suppose we also had available a different set of labels B , together

with a set of documents D_B marked with labels from B . If A and B have some semantic overlap, can the availability of D_B help us b ...

Keywords: EM, document classification, semi-supervised multi-task learning, support vector machines

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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [Reuse library interoperability and the World Wide Web](#)**

Shirley V. Browne, James W. Moore

 May 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1997 symposium on Software reusability**, Volume 22 Issue 3
Full text available: [pdf\(1.16 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2 [Reuse library interoperability and the World Wide Web](#)**

Shirley V. Browne, James W. Moore

 May 1997 **Proceedings of the 19th international conference on Software engineering**
Full text available: [pdf\(1.29 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 [Artificial intelligence #1: SA MetaMatch: relevant document discovery through document metadata and indexing](#)**

Hui S. Yau, J. Scott Hawker

 April 2004 **Proceedings of the 42nd annual Southeast regional conference**
Full text available: [pdf\(429.27 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SA_MetaMatch, a component of the Standards Advisor (SA), is designed to find relevant documents through matching indices of metadata and document content. The elements in the metadata schema are mainly adopted from the Dublin Core (DC). The implementation of the XML metadata schema and coding follows the DC recommended guidelines. After metadata is generated manually for an unstructured document, or is extracted automatically from documents of well defined layout, they are stored in metadata file ...

Keywords: Dublin Core, document matching, index, metadata**4 [Manipulating OOo documents with Ruby](#)**

James Britt

 March 2004 **Linux Journal**, Volume 2004 Issue 119
Full text available: [html\(24.17 KB\)](#)Additional Information: [full citation](#), [abstract](#)

XML and Ruby let your scripts and your office suite handle the same files.

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1 [Demonstration session 1: MPEG-7 video automatic labeling system](#)

Ching-Yung Lin, Belle L. Tseng, Milind Naphade, Apostol Natsev, John R. Smith

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**Full text available: [pdf\(176.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this demo, we show a novel end-to-end video automatic labeling system, which accepts MPEG-1 sequence inputs and generates MPEG-7 XML metadata files. Detections are based on the prior established anchor models. This system has two parts: model training process and labeling process. They are comprised of seven modules: Shot Segmentation, Region Segmentation, Annotation, Feature Extraction, Model Learning, Classification, and XML Rendering.

Keywords: MPEG-7, annotation, concept labeling, concept learning, feature extraction, video indexing

2 [Technical and art demonstrations session 1: DiMaS: distributing multimedia on peer-to-peer file sharing networks](#)

Tommo Reti, Risto Sarvas

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**Full text available: [pdf\(169.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This demonstration presents the Digital Content Distribution Management System (DiMaS). DiMaS proves as a concept that it is possible to make a system for multimedia producing communities to publish their work on highly popular P2P networks, and importantly, the system enables producers to insert content metadata, to manage intellectual property and usage rights, and to charge for the consumption. All this can be done without introducing another new content or metadata file format and a dedic ...

Keywords: decentralized, metadata, multimedia, peer-to-peer, wireless

3 [Posters: Ontalk: ontology-based personal document management system](#)

Hak Lae Kim, Hong Gee Kim, Kyung-Mo Park

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**Full text available: [pdf\(642.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present our development of a document management and retrieval tool, which is named *Ontalk*. Our system provides a semi-automatic metadata generator and an

ontology-based search engine for electronic documents. *Ontalk* can create or import various ontologies in RDFS or OWL for describing the metadata. Our system that is built upon. NET technology is easily communicated with or flexibly plugged into many different programs.

Keywords: document management, inference etc., knowledge management, ontology

4 Electronic document technology: Developing an XML framework for metadata system

Ruey-Shun Chen, Shien-Chiang Yu

September 2003 **Proceedings of the 1st international symposium on Information and communication technologies ISICT '03**

Full text available:  [pdf\(383.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Metadata is the media to describe the management and storing of kind of knowledge and well-preserved objects. Thus, with the compatibility of all various metadata, we can integrate related knowledge and with unification and management of information system. This paper introduces a system using the XML framework to be compatible with various metadata schemas, using the DTDs of XML to define the system schema structure, allowing more than one DTDs to exist. Therefore, it meets the demand of proces ...

Keywords: DTD, XML, metadata, schema, system design

5 Database and digital library technologies: A geolibrary for multimedia data sets: design and implementation issues

Cláudio S. Baptista

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:  [pdf\(785.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the design and implementation issues of the STepLib geolibrary. STepLib aims to manipulate both spatiotemporal and multimedia data. Currently, the STepLib model supports maps, still images, video, audio and documents, as first class objects. This allows not only for the support of storage and presentation capabilities, but also for indexing and searching of these complex data types. Metadata are used in the model to represent semantic abstraction of the underlying geo-object ...

Keywords: digital libraries, geo-libraries, multimedia databases

6 VARIATIONS: a digital music library system at Indiana University

Jon W. Dunn, Constance A. Mayer

August 1999 **Proceedings of the fourth ACM conference on Digital libraries**

Full text available:  [pdf\(122.41 KB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)


Keywords: digital audio, digital libraries, music libraries

7 Broadcast and on-line cultural heritage: Broadcast technologies for disseminating cultural heritage

John Cosmas, Take Itegaki, Kannan Krishnapillai, Alan Lucas, Mohammed Akhtar, Graham Thomas, Jigna Chandaria, Wolfgang Putz, Andre Everts, Michael Probst, Peter Stammnitz, Jens Guether, Wolfram Liebsch, Gerhard Stoll, Christoph Dosch Reiner Socker, Chris Brendes, Ronald Mies, Dick Van Smirren, Benoit Mory, Nicolas Santini, Alan Pearmain, Yakup Paker, Mounia Lalmas, Damien Parwporth, Ekaterina Moutogianni, Gunn Klungsoeyr, Lena Pedersen, Pers-Steinar Hansen, Klaus Illgner

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**

Full text available: Additional Information:

 [pdf\(1.03 MB\)](#)[full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper introduces the System for Advanced Multimedia Broadcast and IT Services (SAMBITS). It consists of a Studio, Server and TV Terminal system for broadcasting audio/video TV content enhanced by 3D graphics, Internet pages, database indexing and sub-image streaming. It describes two scenarios program for disseminating cultural heritage. The readers are invited to imagine how this system could be used to prepare programs for disseminating archaeology. The paper describes the Studio and Serv ...

8 [Open learning objects for data structure course](#)

Longzhuang Li, Hongchi Shi, Yi Shang, Su-Shing Chen

April 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 4

Full text available:  [pdf\(111.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper presents an approach to the design of Open Learning Objects (OLOs). The approach is based on open standards, mostly XML markup languages and their related tools. It enables learning-object-to-learner interaction and supports learning object adaptation to the learner. We use inner metadata to describe the OLOs with features of learner adaptation and interaction. OLOs designed using this approach can be used to organize learning materials of a wide range of courses, and better support le ...

9 [Enabling full service surrogates using the portable channel representation](#)

Micah Beck, Terry Moore, Leif Abrahamsson, Christophe Achouiantz, Patrick Johansson

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available:  [pdf\(282.92 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

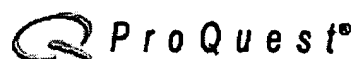
Keywords: content distribution, dynamic content, mirroring, portability, replication, surrogate, web server

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